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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/475,269	12/30/1999	AYMAN BEDAIR	03384-0364	6151	
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PO Drawer 800 Dallas, TX 7538			HARPER, K	KEVIN C	
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			2462		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		09/475,269	BEDAIR ET AL.			
		Examiner	Art Unit			
		Kevin C. Harper	2462			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 🛛	Responsive to communication(s) filed on <u>30 March 2010</u> .					
		action is non-final.				
3)	·—					
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)🖂	Claim(s) 1-15 and 20-35 is/are pending in the a	application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🛛	5) Claim(s) <u>35</u> is/are allowed.					
6)🖂	6)⊠ Claim(s) <u>1-14,20-32 and 34</u> is/are rejected.					
7)🖂	Claim(s) <u>15 and 33</u> is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9)□	The specification is objected to by the Examine	r.				
•	The drawing(s) filed on is/are: a)  acc∈		Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
2)  Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

Application/Control Number: 09/475,269 Page 2

Art Unit: 2462

## Response to Arguments

Applicant's arguments filed March 30, 2010, concerning claims 1-34 have been fully considered but they are not persuasive.

- 1. Applicant argued that the combination of references does not provide for reducing the number of channels in a network. Constantin recognizes that connections are admitted based on delays of network equipment at specific times (col. 1, lines 54-65); however, Constantin is silent on connection priority and non-ideal operating conditions within the network. Chuah provides for eliminating existing lower priority connections when there is insufficient capacity for higher priority connections during non-ideal network conditions. Therefore, the combination of references fairly teaches reducing the number of channels within a network to optimize bandwidth.
- 2. In response to applicant's argument that Chuah is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Chuah provides for reducing the number of channels in a network to maintain bandwidth for a high priority connection. Although Chuah is directed to wireless connections and interference, one skilled in the art would recognize analogous problems in a wired network such as reduced bandwidth based on network equipment failures and the need to address situations where those failures cause a current bandwidth to be less than the bandwidth necessary for connections admitted during ideal network conditions.

Application/Control Number: 09/475,269 Page 3

Art Unit: 2462

## Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin et al. (US 6,198,725) in view of Daniel et al. (US 5,726,985) and Chuah (US 2003/0214928).

- 3. Regarding claims 1 and 20, Constantin discloses a method of adapting a network to maintain a Quality of Service level in the network (col. 3, lines 7-13). The method comprises the steps of identifying and measuring a parameter after the packet has been transmitted across a network (fig. 4, steps 108 and 112; col. 1, lines 32-39; fig. 1), and enabling optimization of the network bandwidth when the measured parameter differs from a predetermined value (fig. 4, step 114; col. 6, line 63 through col. 7, line 11). Further regarding claim 20, Constantin discloses an apparatus (fig. 1) comprising a parameter identifying mechanism, a parameter measuring device and an optimization enabling device (items 22; col. 7, lines 30-45; fig. 4).
- 4. However, Constantin does not disclose adapting a PBX network. Daniel discloses a PBX used in a packet network (fig. 1). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a PBX in the invention of Constantin to provide packet connectivity among telephone users (Daniel, col. 10, lines 40-47 and 49-54; col. 1, lines 49-52).
- 5. Further, Constantin in view of Daniel does not disclose reducing a number of channels in the network. Chuah discloses reducing the number of channels in a network based on the conditions of a channel (para. 234). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to reduce the number of channels in a network in the

Art Unit: 2462

invention of Constantin to prevent congestion from effecting high priority connections (Chuah, para. 234).

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin et al. (US 6,198,725) in view of Daniel et al. (US 5,726,985), Chuah (US 2003/0214928) Thorson (US 4,440,986).

- 6. Constantin in view of Daniel and Chuah discloses a method of (and apparatus for) adapting a PBX network as noted in the rejection of claims 1 and 20 above. However, Constantin in view of Daniel and Chuah does not disclose first and second PBX cabinets. Thorson discloses a cabinet for a PBX (col. 4, lines 53-60). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a cabinet for a PBX in the invention of Constantin to provide a physical housing for the components of a PBX as is known in the art.
- 7. Still further, Constantin does not specifically disclose a register for storing a measured parameter. Daniel discloses storing a parameter in a register (col. 22, lines 13-20). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to store a measured parameter in a register in the invention of Constantin to use the parameter in a subsequent calculation as is known in the art.

Claims 3, 6-8, 21 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin in view of Daniel and Chuah, as applied to claim 1 or 20 above, in further view of Yamato et al. (US 5,694,390).

8. Regarding claims 3 and 21, Constantin in view of Daniel does not disclose measuring a sequence number associate with a packet. Yamato discloses measuring a sequence number of successive packets (col. 25, lines 62-66). The sequence is associated with stored data packets

Page 5

(col. 8, line 63 through col. 9, line 4). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to measure a sequence number in the invention of Constantin to determine a utilization level in a network (Yamato, col. 26, lines 4-8).

- 9. Regarding claims 6 and 24, Constantin does not specifically disclose a register for storing a measured parameter. Daniel discloses storing a parameter in a register (col. 22, lines 13-20). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to store a measured parameter in a register in the invention of Constantin to use the parameter in a subsequent calculation as is known in the art.
- Regarding claims 7-8 and 25-26, the limitations of these claims have been addressed in 10. the rejection of claim 3 or 21 above.

Claims 4-5 and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin in view of Daniel and Chuah, as applied to claim 1 or 20 above, in further view of Campbell et al. (US 2003/0140159).

Claims 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin in view of Daniel, Chauh and Thorson, as applied to claim 2 above, in further view of Campbell et al. (US 2003/0140159).

11. Regarding claims 4-5, 22-23 and 34, Constantin in view of Daniel and Chuah (and Thorson) does not disclose measuring differences in packet arrival times for round trip packets. Campbell discloses measuring difference in arrival times for round trip packets (para. 136 and 139; para. 130 and para. 132, last four lines). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to measure packet arrival times for round trip packets in the invention of Constantin to detect a utilization level within a network (Campbell, para. 136).

Art Unit: 2462

Claims 9-13 and 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin in view of Daniel, Chuah and Yomato, as applied to claim 8 or 26 above, in further view of Geagan, III et al. (US 6,263,371).

- 12. Regarding claims 9-10 and 27-28, Constantin in view of Daniel and Yamato does not disclose incrementing a packet counter as claimed. Geagan discloses incrementing a counter by one to keep track of the sequence of incoming packets and incrementing a counter by more than one if a packet is lost (abstract; fig. 3 and fig. 6, steps 78 and 84-90). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to keep track of a sequence of packets using a counter in the invention of Constantin to properly convey the real-time information within received packets (Geagan, col. 2, lines 38-42).
- 13. Regarding claims 11-13 and 29-31, these limitations have been addressed in the rejection of claim 1 above where Chauh discloses a reduction in a number of channels in the network as both static and adaptive. The optimization is static to ensure the higher priority connections always take preference over low priority connections. The optimization is adaptive by performing as channel conditions or network congestions vary with time.

Claims 14 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin in view of Daniel, Chuah, Yamato and Geagan, as applied to claim 14 or 29 above, in further view of Thorson (US 4,440,986).

14. Regarding claims 14 and 32, the combination of references does not disclose a PBX cabinet having cards. Thorson discloses a cabinet for a PBX having cards (col. 4, lines 53-60). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a cabinet for a PBX in the invention of Constantin to provide a physical housing for the components of a PBX as is known in the art.

## Allowable Subject Matter

Claims 15 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 35 is allowed.

## Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:00 AM to 7:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao, can be reached at 571-272-3174. The centralized fax number for the

Application/Control Number: 09/475,269 Page 8

Art Unit: 2462

Patent Office is 571-273-8300. For non-official communications, the examiner's personal fax

number is 571-273-3166 and the examiner's e-mail address is kevin.harper@uspto.gov.

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571-272-1000.

/Kevin C. Harper/

Primary Examiner, Art Unit 2462

July 3, 2010